

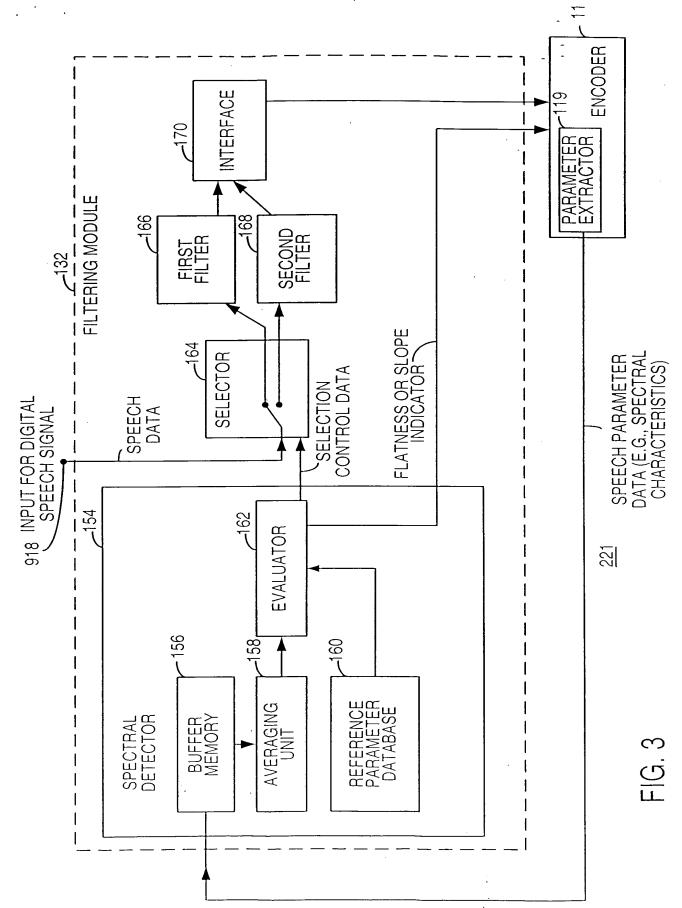
ILLUSTRATIVE MIRS SPECTRAL RESPONSE

FIG 2B

FREQUENCY (E.G., IN KHz)
FIG. 2A

BANDWIDTH

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FIG. 4A

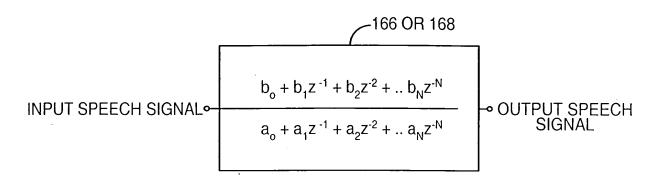
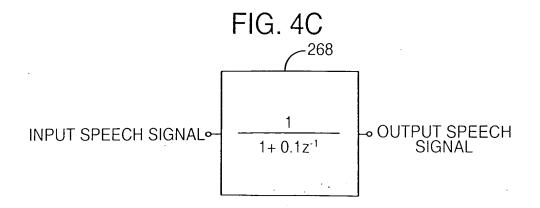


FIG. 4B 266 o OUTPUT SPEECH SIGNAL INPUT SPEECH SIGNAL. 1-0.1z⁻¹



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∠S10

ASSUME THE SPECTRAL RESPONSE OF A SPEECH SIGNAL IS SLOPED IN ACCORDANCE WITH A DEFINED CHARACTERISTIC SLOPE(E.G., AN MIRS SIGNAL RESPONSE).

S12

ACCUMULATE SAMPLES (E.G., FRAMES) OF THE SPEECH SIGNAL OVER AT LEAST A MINIMUM SAMPLING DURATION (E.G., 2-4 SECONDS)

514 S

AVERAGE THE ACCUMULATED SAMPLES ASSOCIATED WITH THE MINIMUM SAMPLING DURATION TO OBTAIN AN AVERAGED REPRESENTATIVE SAMPLE.

S16

COMPARE THE AVERAGED REPRESENTATIVE SAMPLE TO REFERENCE DATA IN A REFERENCE DATABASE OF SPECTRAL CHARACTERISTICS, INCLUDING AT LEAST ONE OF THE DEFINED CHARACTERISTIC SLOPE AND A FLAT SPECTRAL RESPONSE.

′ ~S18

DOES A SLOPE OF THE REPRESENTATIVE
SAMPLE OF THESPEECH SIGNAL CONFORM TO THE DEFINED
CHARACTERISTIC SLOPE AS DETERMINED
BY THE COMPARISON?

YES

~S20

NO

APPLY A FIRST FILTER TO LESSEN A SLOPE OF THE SPEECH SIGNAL TO APPROACH A FLATTER SPECTRAL RESPONSE IN PREPERATION FOR PROSPECTIVE SPEECH CODING.

~S22

NQ

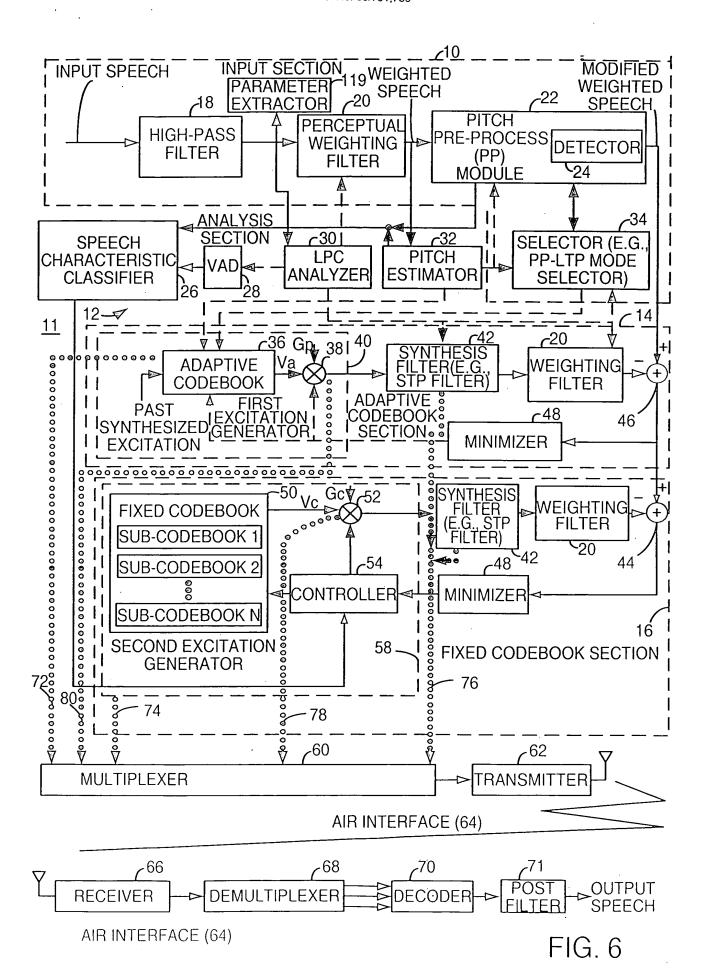
IS THE SPECTRAL RESPONSE OF THE REPRESENTATIVE SAMPLE OF THE SPEECH SIGNAL GENERALLY FLAT AS DETERMINED BY THE COMPARISON?

TYES S24

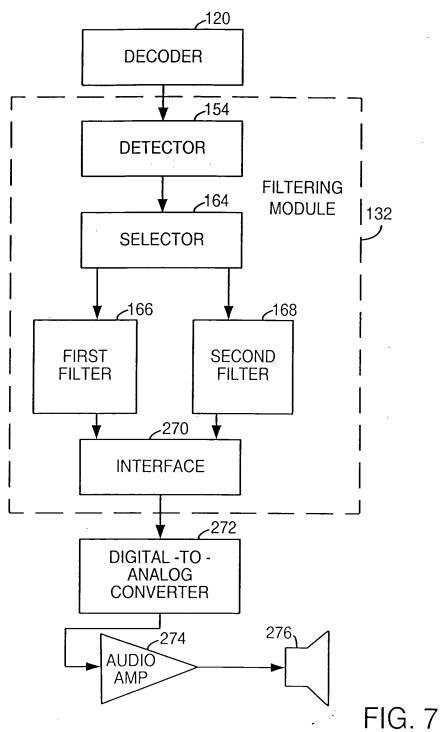
APPLY A SECOND FILTER TO INCREASE A SLOPE OF THE SPECTRAL RESPONSE OF THE SPEECH SIGNAL TO APPROACH A MORE SLOPED SPECTRAL RESPONSE THAN THE FLAT SPECTRAL RESPONSE IN PREPARATION FOR PROSPECTIVE SPEECH CODING.

______S26

ADJUST ONE OR MORE CODING PARAMETERS OR SELECT PREFERENTIAL CODING PARAMETER VALUES (E.G. A FIRST CODING PARAMETER VALUE AND A SECOND CODING PARAMETER VALUE) CONSISTANT WITH APPLICATION OF THE FIRST FILTER OR THE SECOND FILTER.



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